

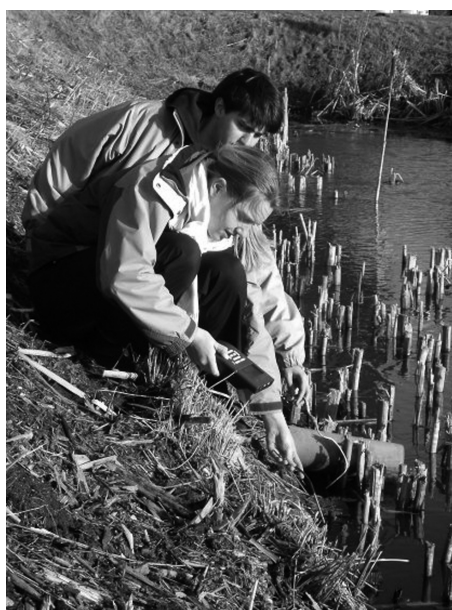
SECTION B

Answer **two** questions.

Area of Impact: Education

2. A school in Peru takes students on a five day science field trip to Tambopata in the jungle. Students participate in activities to learn about ecology, the weather and adaptation of plants and animals.

Each group has a laptop, which is kept in the main campsite. Each group takes a digital camera and a data logging device with different sensors to the jungle. At the end of each day, back at the campsite, the student must enter the data collected onto the laptop and prepare their daily report. There is no Internet connection in the area.



[Source: Centre for Microcomputer Applications. Reprinted with permission. www.cma.science.uva.nl]

- (a) Identify **two** ways data collected during the day may be entered into the laptop computer. [2 marks]
- (b) Students use a spreadsheet to show some of their results. Describe **two** ways a spreadsheet can be used to analyse the results obtained during their activities. [4 marks]
- (c) Once students return from their trip they have to report back to their class showing their findings and what they have learned. Explain **one** advantage of using a word processor and **one** advantage of using presentation software to report about the work done during their field trip. [4 marks]
- (d) Taking school IT equipment such as laptops, digital cameras, data logging devices and sensors to a field trip causes some concerns for the school and teachers. To what extent are these concerns outweighed by the educational advantages for the students? [10 marks]